

00 1101 1001 0011
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11 0010 0100 1001
01 0111 1000 1101
00 1001 0010 0110
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11 0010 0100 1001
10 1010 1000 1010
11 0110 1101 0010
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11 0010 0100 1001
00 1101 1001 0011
11 0010 0100 1001
01 0111 1000 1101

KK266plus-R™ / KK266plus™

User's Manual



MAKE THINGS HAPPEN

<http://www.iwill.net>

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Quick Installation

Before Installation

For installation, you may need some or all of the following tools:

Medium size flat blade screwdriver

Medium size Phillips head screwdriver

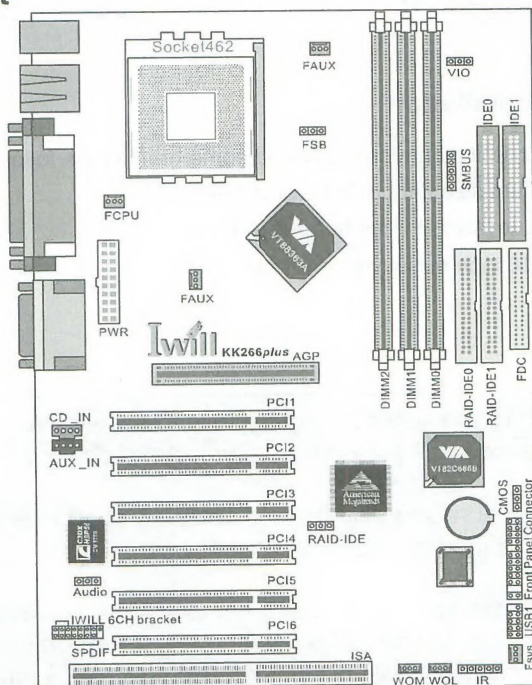
A 3/16 inch nut driver or wrench



Users must follow these guidelines to ensure the motherboard is protected during installation.

1. Make sure your computer is powered-off whenever working in with inside components
2. The motherboard, like all other electronic equipment, is sensitive to static. Please take the proper precautions when handling it. If possible, ground yourself by touching a metal table or desk. Keep the board in its conductive wrapping until it is configured and ready to be installed in your system.
3. Keep all magnets away from both your hard and floppy disk drives, especially magnetic screwdrivers. Keep both floppy and hard disks apart if disassembled.
4. Keep water and liquids away from your computer and its components.

Layout



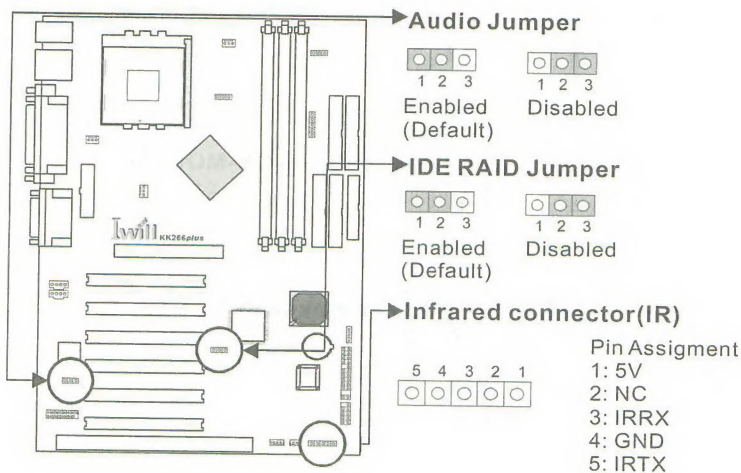
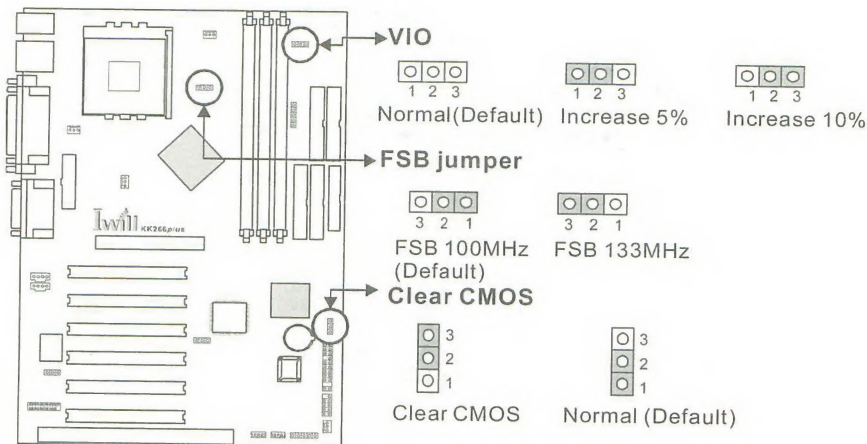
Item Checklist

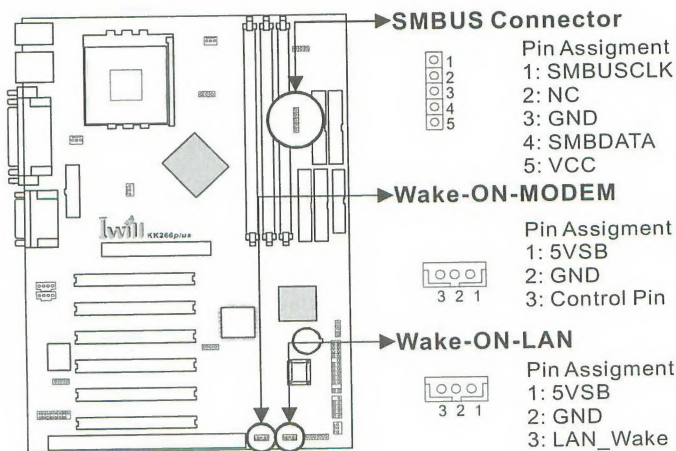
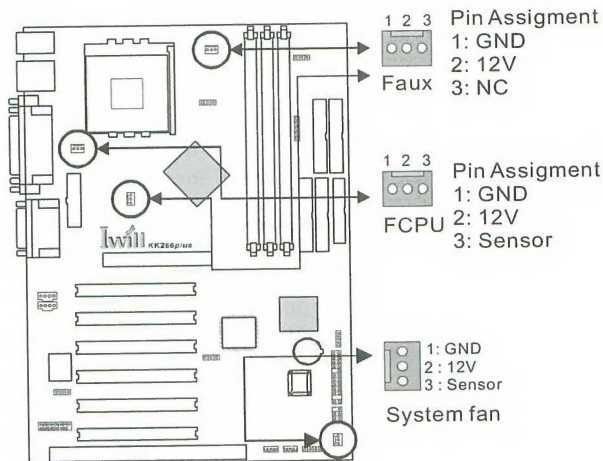
- [V] The motherboard
- [V] Operation manual
- [V] ATA 100/66 IDE cable
- [V] Floppy cable
- [V] Power Installer CD
- [V] 6-Channel Audio (Bracket)

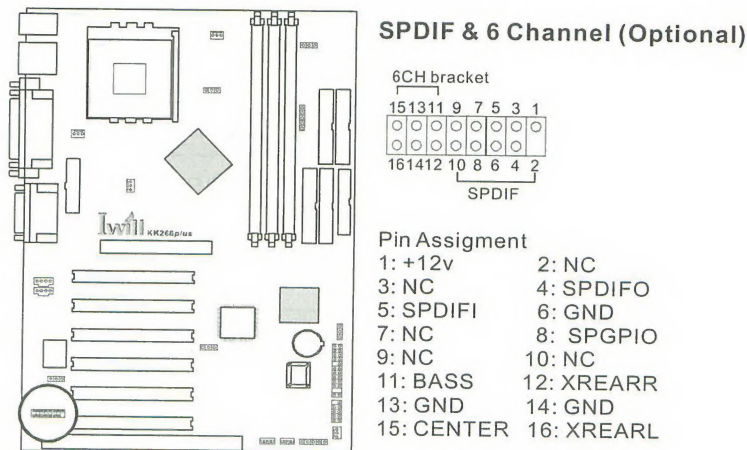
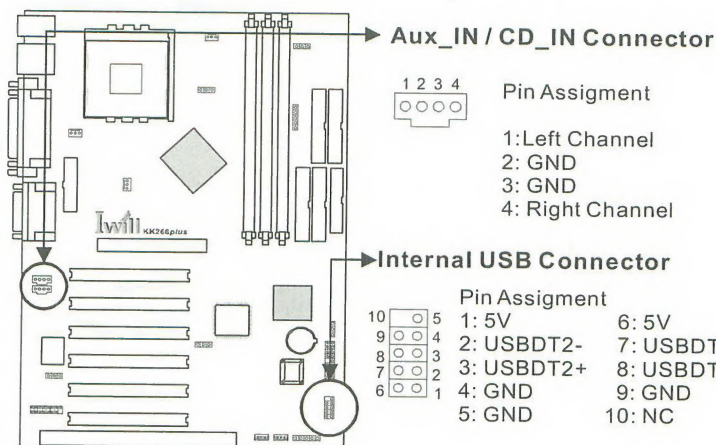
Optional

- [] USB riser kit
- [] Thermal Sensor for System
- [] Infrared port cable
- [] Optional Module (SPDIF version only)
- [] IWILL SuperAudio (for SPDIF)

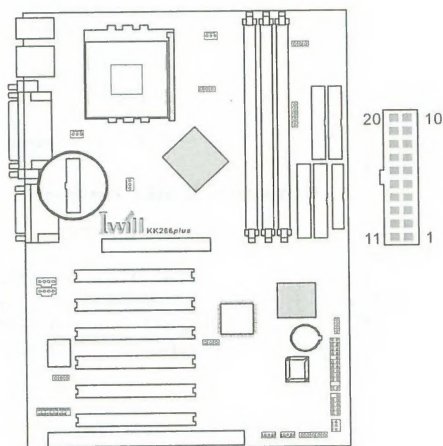
Jumpers/Connectors





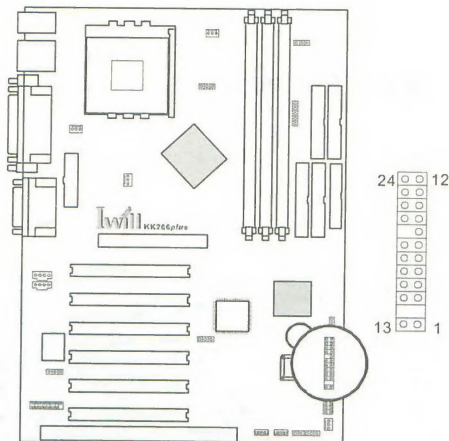


ATX power connector



PIN No.	Definition	PIN No	Definition
1	+3.3V	11	+3.3V
2	+3.3V	12	-12V
3	Ground	13	Ground
4	+5V	14	Power Supply On
5	Ground	15	Ground
6	+5V	16	Ground
7	Ground	17	Ground
8	Power Good	18	-5V
9	+5V	19	+5V
10	+12V	20	+5V

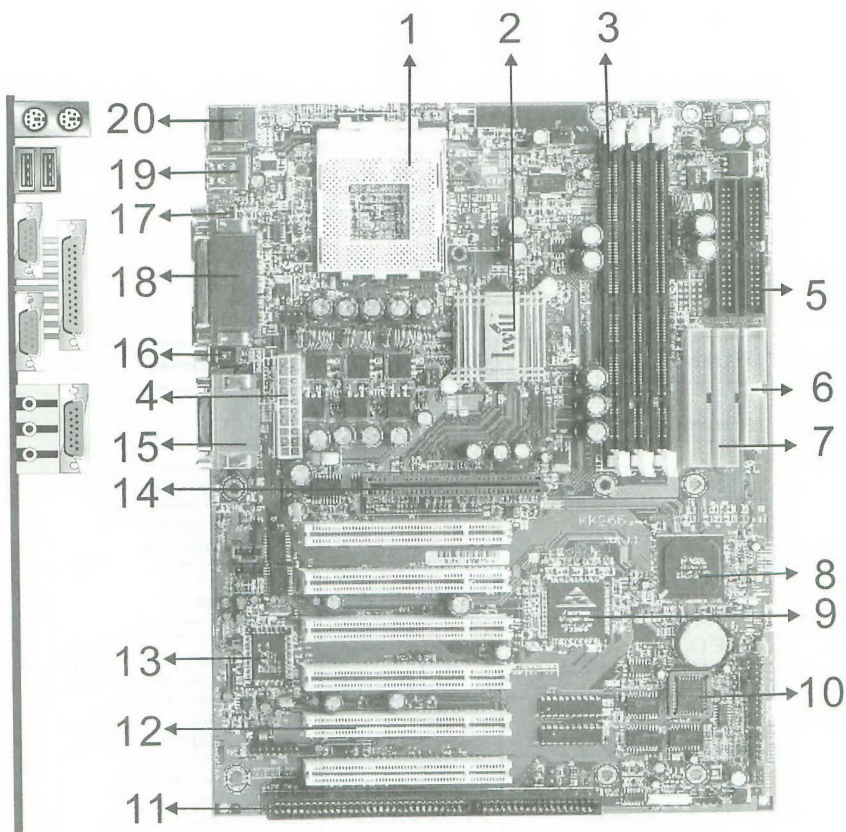
Front panel connector



Function	PIN NO.	Definition
PWR_ON (Power/Soft_Off)	1,13	
ACPI(ACPI LED)	3,4	PIN 3:Anode PIN 4:Cathode
ALED(IDE LED)	7,8	PIN 7:Anode PIN 8:Cathode
RST(RESET)	11,12	PIN 11:RST PIN 12:GND
PLED (System PowerLED)	15,16,17	PIN 15:VCC PIN 16:NC PIN 17:GND
KL (Keyborard Lock)	18,19	PIN 18:KL PIN 19:GND
SPKR(Speaker)	21,22,23,24	PIN 21:VCC PIN 22:NC PIN 23:NC PIN 24:SPEAK (BUZZ)

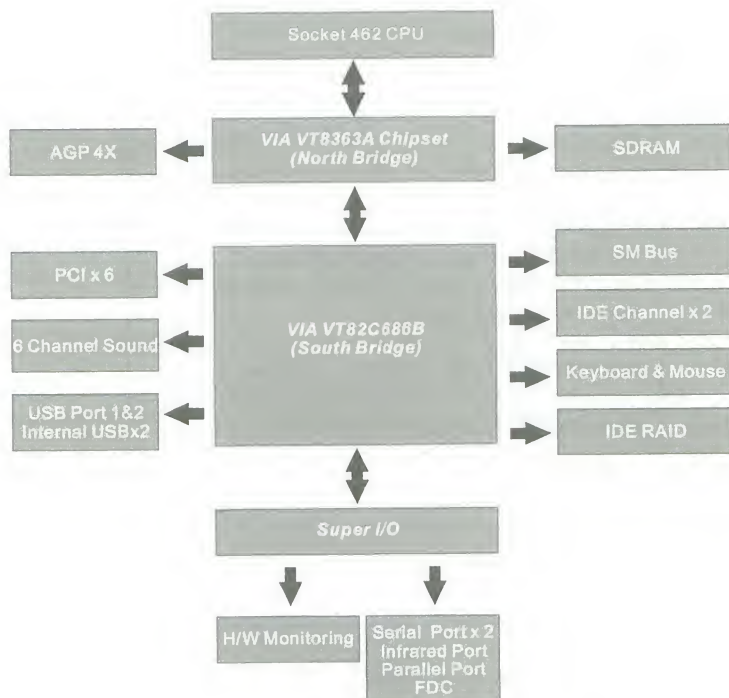
Features

Motherboard Components Placement



NO.	Description
1	CPU Socket
2	VIA VT8363 chipset
3	DIMM sockets
4	ATX Power connector
5	IDE connector
6	FDC connector
7	IDE RAID Channels (KK266Plus-R only)
8	VIA VT82C686B chipset
9	AMI IDE RAID Chip (KK266Plus-R only)
10	FWH chipset for programmable BIOS
11	ISA slot
12	PCI slot
13	CMI 6 Channel sound chip
14	AGP slot
15	Joystick, Midi Line In / Out, Microphone In
16	COM2
17	COM1
18	Parallel Port
19	USB
20	PS2 Mouse / Keyboard

Block Diagram



Specifications

Processor / (Socket462)

Supports 1 processors
Supports DDR 266MHz FSB (Front Side Bus)
Supports AMD Duron CPU from 600MHz to 950MHz and higher.
Supports AMD Athlon CPU from 700MHz to 1.6GHz or higher.

CPU Frequency/Voltage Selection

Supports Vcore selection from BIOS
Supports VIO selection from Jumpers
Supports CPU Multiplier selection from BIOS
Supports CPU External Frequency selection from BIOS

Memory

Supports PC100/PC133 SDRAM/VCM
Supports Unbuffered DIMMs
Supports 64M/128M/256M/512M SDRAM Module
Supports up to 1.5GB when using 256MB technology DRAM.

Graphics

Supports AGP 4X/2X mode

General I/O

PCI 2.2 compliance
Supports 32-bit/33MHz PCI interface
Supports ATA33/ATA66/ATA100 IDE interface
Supports Floppy interface
Supports 16550A UART interface
Supports ECP/EPP interface
Supports PS2 interface
Supports SIR interface
Supports USB interface

Sound support

Supports CMI8738 H/W 6 Channel
Supports SPDIF (through IWILL SuperAudio)
Supports Game/MIDI interface
Supports Win9X/WinNT/Win2000/Linux.

Management

- Supports voltage monitoring
- Supports fan control signal (CPU/SYS)
- Supports temperature sensor (CPU/SYS)
- Supports Power on by LAN/Ext. Modem/Int. Modem/RTC/PME
- Supports Resume by LAN/Ext. Modem/Int. Modem/PS2 Keyboard/PS2 Mouse/RTC/PME
- Supports ACPI
- Supports APM
- Supports DMI
- Supports SMBUS
- Supports PnP
- Supports BIOS ROM Flash Control
- Supports Manually Assign PCI IRQ

Power requirement

- Onboard DC/DC switching voltage regulator supports Vcore up to 46A current
- Supports adjustable VIO (Normal/Increase 5%/Increase 10%)
- Supports 30A/us Icc slew rate
- Supports 3 phase power solution

Expansion Slot, Sockets and Connectors

- One Socket462 socket
- Three DIMM sockets
- One Universal AGP slot
- SIX 32bit/33MHz Bus Master PCI slots
- Two IDE connectors
- Two IDE RAID connectors
- One FDC connector
- One ISA slot
- One External USBx2 connectors
- One ATX 20-pin power connector

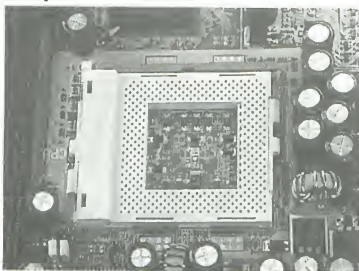
Hardware Setup

Install the Processor

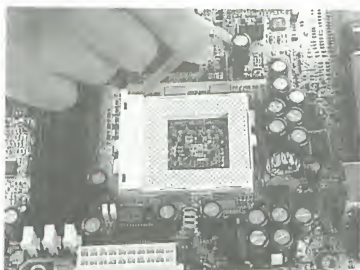
The CPU should have a fan attached to prevent overheating. If this is not the case, then purchase a fan before you turn on your system.

Be sure that there is sufficient air circulation across the processors heatsink by regularly checking that your CPU fan is working. Without sufficient circulation, the processor could overheat and damage both the processor and the motherboard. You may install an auxiliary fan, if necessary.

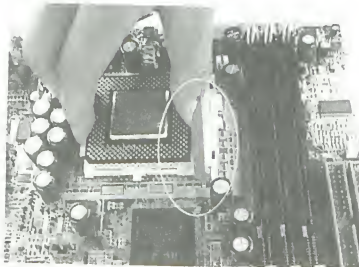
Step1:



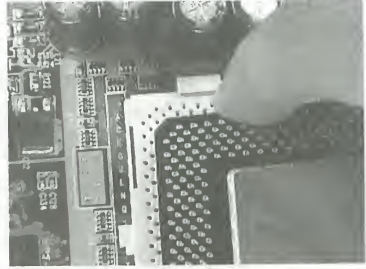
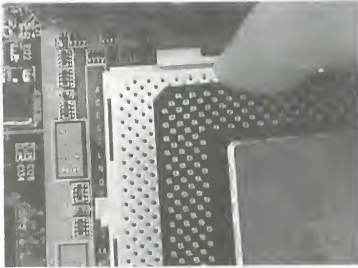
Locate the ZIF socket and open it by first pulling the lever of socket upward.



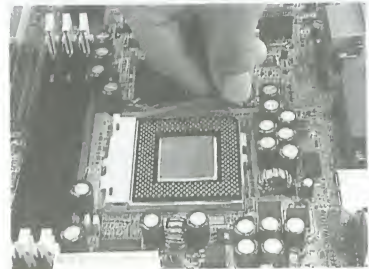
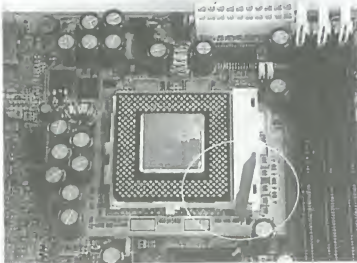
Step2:



Insert the CPU into the socket. Please keep the lever right angle when inserting CPU.

Step3:

When inserting the CPU Please note the correct orientation as shown. The notched corner should point toward the end of the lever.

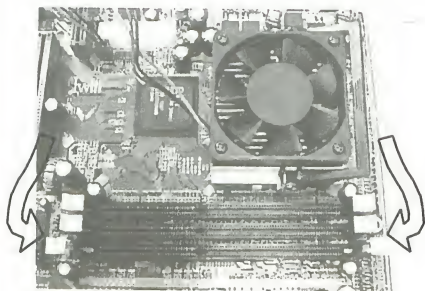
Step4:

Push the lever down to close the socket.

Install Memory Modules

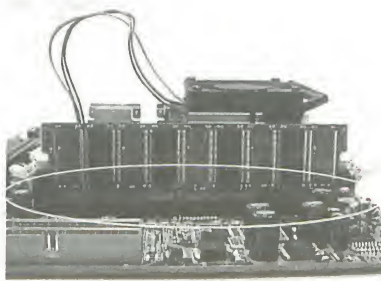
The motherboard has three Memory sockets and supports memory size up to 3GB.

Step1:



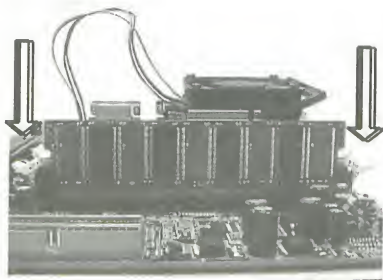
Open latches of DIMM socket.

Step2:



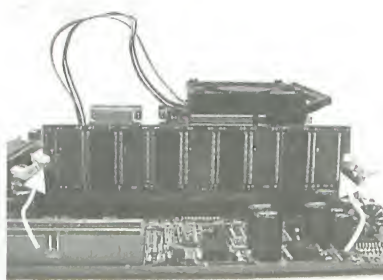
Proofread the RAM module to the DIMM Socket.

Step3:



Insert the RAM module into the DIMM socket.

Step4:

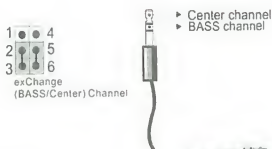
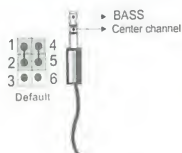


Press the latches into the notches of the RAM module.

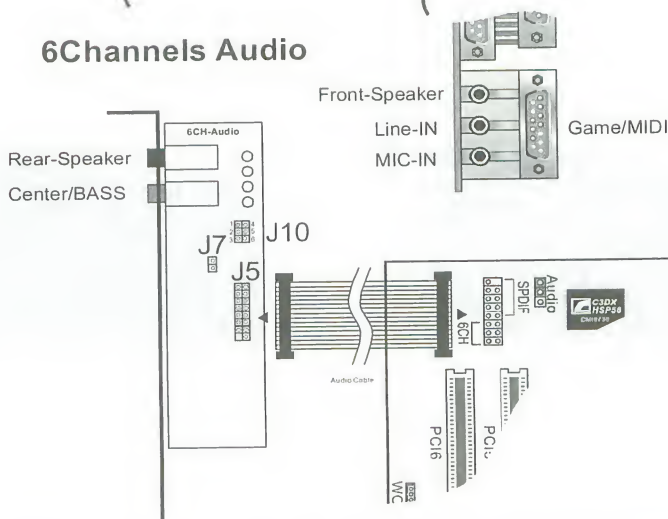
IWILL 6Channels Audio/ SuperAudio (Optional) Connectors and Jumpers

JP5	Audio Extension (Digital I/O) Connector
JP7	CD-SPDIF IN
JP10	BASS/Center Select
Line-IN	LINE-IN Connect to the audio output port of stereo
Mic-IN	Connect to the Microphone (Mono)
Front-Speaker	Output to speakers with the amplifier or earphones or AUDIO-IN of home stereo
Rear-Speaker	Connect to the rear speakers while four/six channel speakers mode is enabled
Center/BASS	Connect to the center speaker and BASS while six channel speakers mode is enabled
GAME/MIDI	Connect to Joystick or devices using MIDI interface
RCA SPDIF IN/OUT	Connects to digital audio devices such as DAT and MiniDisc recorders, via RCA input/output
Optical SPDIF IN/OUT	Connects to digital audio devices such as DAT and MiniDisc recorders, via optical input/output

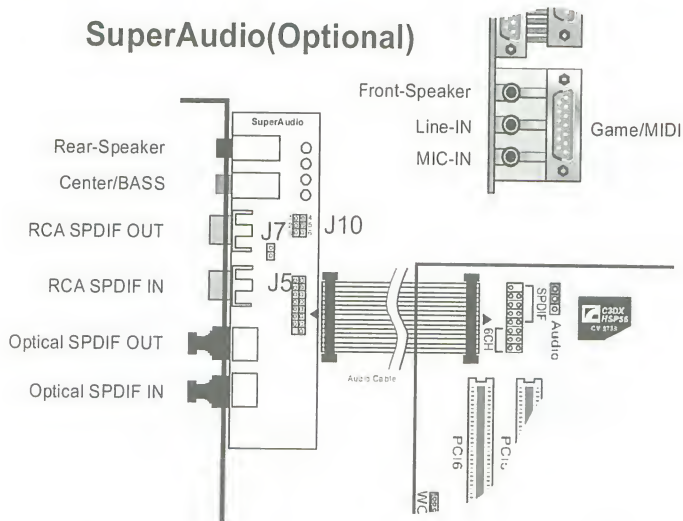
JP10 function



6Channels Audio



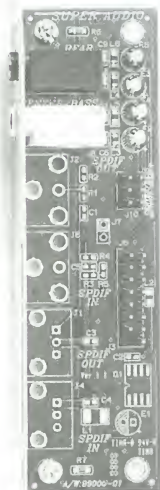
SuperAudio(Optional)



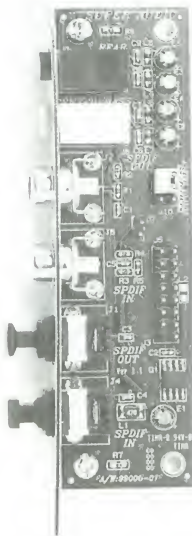
Please remove the cap
from the optical cable first



IWILL 6Channels Audio



IWILL SuperAudio (Optional)



ATX Power Supply Connector

Power on procedures

STEP	Description
1	After all connections are made, close the system case over.
2	Be sure that all switches are off.
3	Connect the power cord into the power supply located on the back of your system case.
4	Connect the power cord a power outlet that is equipped with a surge protector.
5	Many of the power supply support 110V/220V by a switch setting. Switch your power supply to the correct supply voltage.
6	Turn on your system in the following order <ol style="list-style-type: none">The monitorThe external devices.The computer system.



The power LED on the front panel of the chassis will light. After few seconds, the system will then run power-on tests. Some additional messages will appear on the screen during the test. If you do not see anything within 30 seconds from the time you turn on the power, the system may have failed a power-on test. Recheck the jumper settings and connections or call your retailer for assistance.

Back Panel

Function	color	Description
PS2/Mouse	Green	This connector can be used to support a PS/2 mouse
PS2/ keyboard	Purple	This connector can be used to support a PS/2 keyboard.
Universal Serial Bus	Black	This motherboard has two USB ports, any USB-compatible peripherals and/or hub can be connected into either USB port.
Serial port	Teal	One serial port is ready for a modem or other serial devices
Parallel port	Burgundy	This connector is used for printers, or other parallel devices.
Joystick, Midi and Audio Port	Gold	You may connect joysticks or game pads to this connector for playing games, or connect MIDI devices for playing / editing professional audio. Line Out (Lime color) can be connected to headphones or powered speakers. Line In (Light Blue color) allows audio sources to be recorded by your computer or played through the Line Out connector. Mic (Pink color) allows microphones to be connected for inputting voice.

BIOS Setup

BIOS Setup Upgrade BIOS

The BIOS can be upgraded from a diskette with the Award Flash utility — AWDFLASH.EXE. The BIOS image file, and update utility are available from IWILL's WEB site: support.iwill.net

Enter BIOS setup program

Power-on the system by either pressing the Power-On button, or by using any of the power-on features provided by the motherboard. Then, press the key after the Power-On Self Test (POST), and before the scanning of IDE devices. Simply look for the message "Press DEL to enter SETUP" displayed at the bottom of the screen during the boot up process. If the message disappears before you've had a chance to respond, you can restart the system by turning off the system power then turn it on again, or Pressing the "RESET" button on the system case, or

Pressing <Ctrl>, <Alt> and keys simultaneously.



Generally, the BIOS default settings have been carefully chosen by IWILL's Engineers provide the absolute maximum performance and reliability. It is very dangerous to change any setting without full understanding. We strongly recommend that you. **DO NOT** update BIOS if the system works perfectly. **DO NOT** change any setting unless you fully understand what it means.

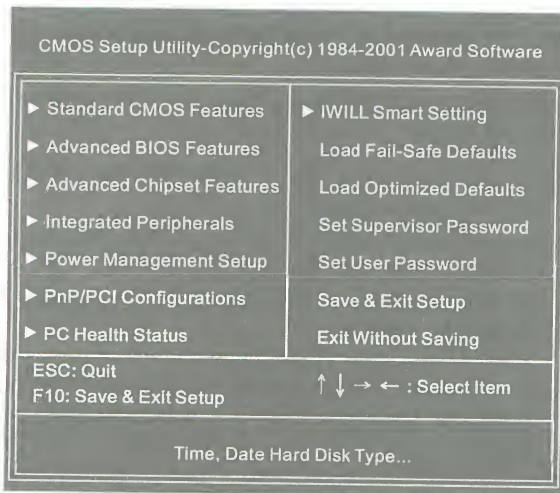
Using BIOS setup program

↑Up	Move to the previous field
↓Down	Move to the next field
←Left	Move to the field on the left hand side
→Right	Move to the field on the right hand side
<Esc>	Quit from setup program without saving changes, or Exit from current menu page and return to main menu page
<PgUp> or <+>	Select the previous value for a field
<PgDn> or <->	Select the next value for a field
<F1>	General Help
<F2>	Item Help
<F5>	Previous Values
<F6>	Fail-Safe Defaults
<F7>	Optimized Defaults
<F10>	Save the current value and exit setup program

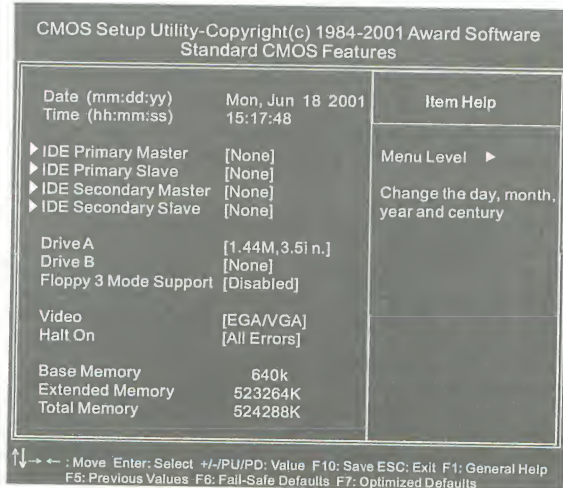
If the system is no longer able to boot after changing the settings, the only way to recover it is to clear the data stored in RTC CMOS. To reset the RTC CMOS data, take the JP1 jumper cap off pins 1-2, place onto pins 2-3, and then place back onto pins 1-2 again. This will return the RTC to the default setting. Then, get into the BIOS setup program, choose Load Fail-Safe Defaults; Load Optimized Defaults, and select the original manufacturer default settings in your CMOS.

Main Menu

The main menu allows you to select from several setup pages. Use the arrow keys to select among these pages and press <Enter> key to enter the sub-menu. A brief description of each highlighted selection appears at the bottom of the screen.



Standard CMOS features



Date

This field specifies the current date. The date format is <month>, <day>, and <year>.

Time

This field specifies the current time. The time format is <hour>, <minute>, and <second>. The time is calculated based on the 24-hour (military-time) clock.

IDE Primary Master / Primary Slave / Secondary Master / Secondary Slave

Press "Enter" to enter next page for detail hard drive setting.

IDE HDD Auto-Detection

Auto-Detect the HDDs Capacity, and its parameters, ex: Cylinder, Head and Sector.

IDE Primary Master / Primary Slave / Secondary Master / Secondary Slave

This field specifies type of drive that corresponds to the drive installed in your system. If you select User, please specify the correct number of Cylinders, Heads, and Sectors.

Manual	Selecting manual lets you set the remaining fields on this screen. Selects the type of fixed disk.
Auto (Default Value)	BIOS automatically fills in the values for the cylinders, heads and sectors fields.
None	Any Disk Drives are attached

Capacity Auto Display your disk drive size

Access MODE

This field specifies the IDE translation mode.

NORMAL	Specifies traditional CHS addressing mode.
LARGE	Specifies extended CHS translation mode
LBA	Specifies LBA translation mode.
AUTO (Default Value)	BIOS Specifies translation method automatically.

Cylinders

Set the number of cylinders for this hard disk.

Heads

Set the number of read/write heads

Precomp

Setting a value of 65535 means no hard disk

Sectors

Set the number of sectors per track

Drive A / Drive B

This field specifies the traditional type of floppy drives.

None (*Drive B default)	Any Floppy drive is connected
360K, 5.25 in.	Specifies extended CHS translation mode
1.2M, 5.25 in.	A 1.2M floppy drive is connected
720K, 3.5 in.	A 720K floppy drive is connected.
1.44M, 3.5 in. (*Drive A default)	A 1.44M floppy drive is connected
2.88M, 3.5 in.	A 2.88M floppy drive is connected

Floppy 3 Mode Support

3 Mode floppy drive is a type of 3.5-inch drive used by NEC PC98 computers. It supports both 1.2M and 1.44M formats using the same drive. This field specifies which drive supports 3 Mode. When a floppy drive is specified to support 3 Mode, the respective drive setting in "Drive A / Drive B" field will be invalid.

Disabled (Default Value)	No 3 Mode drive is connectedd
Drive A	A 3 Mode drive is connected as drive A
Drive B	A 3 Mode drive is connected as drive B
Both	Both drive A and drive B are 3 Mode drives

Video

EGA/VGA (Default Value)	Specifies EGA or VGA adapterd
CGA 40	Specifies CGA adapter with 40 column mode
CGA 80	Specifies CGA adapter with 80 column mode
MONO	Specifies Monochrome adapter

Halt On

All Errors (Default Value)	Each time the BIOS detects a non-fatal error, the system will stop and display an error message
No Errors	The system will stop for any errors that are detected
All, But Keyboard	The system will stop for any errors except keyboard error
All, But Diskette	The system will stop for any errors except diskette error
All, But Disk/Key	The system will stop for any errors except diskette and key board errors

Base Memory

The POST (Power-On Self Test) determines the amount of base (conventional) memory installed in the system. The value of the base memory is typically 640K. This field has no options.

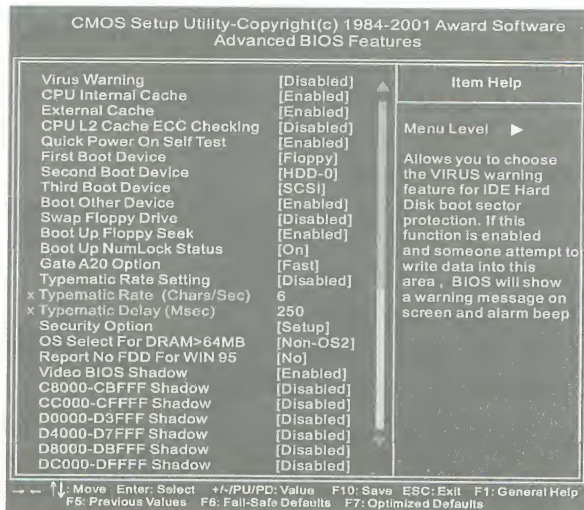
Extended Memory

The BIOS determines how much extended memory is present during the POST. This is the amount of memory located above 1MB in the processor's memory address map. This field has no options.

Total Memory

Displays the total memory available in the system

Advanced BIOS Features



Virus Warning

When this function is enabled and any attempt to write data into this area is made, the BIOS monitor will display a warning message on screen and beep. If you want to run an anti-virus program, we recommend you that it will disable and appear the Virus Warning function beforehand.

[Enabled, Disabled (**Default Value**)]

CPU Internal Cache

This field configures the CPU internal cache(L1 cache).

[Enabled(**Default Value**), Disabled]

External Cache

This field configures the system's external cache(L2 cache).

[Enabled(**Default Value**), Disabled]

CPU L2 Cache ECC Checking

This field specifies whether the CPU L2 cache supports ECC or not.

[Enable, Disabled(**Default Value**)]

First / Second / Third / Boot Other Device

The BIOS attempts to load the operating system from the devices in the sequence selected in these items.

[Floppy, LS120, HDD-0, SCSI, CDROM, HDD-1, HDD-2, HDD-3, ZIP100, LAN, Disabled]

Swap Floppy Drive

When enabled, floppy drives A and B will be exchanged without the user physically changing the connection on the cable.

[Enable, Disabled(**Default Value**)]

Boot Up Floppy Seek

Seeks disk drives during boot up. Disabling speeds boot up.

[Enabled(**Default Value**), Disabled]

Boot Up NumLock Status

This field determines the configuration of the numeric keypad after system boot up. If On, the keypad uses numbers keys. If Off, the keypad uses arrow keys.

[ON(**Default Value**), Off]

Gate A20 Option

This field configures how the gate A20 is handled. The gate A20 is a device used to address memory above 1 MB. At first, the gate A20 was handled from a pin on the keyboard. While some keyboards still provide this support, it is more common, and much faster, for modern system chipsets to provide support for gate A20.

[Fast(**Default Value**):GateA20 signal supported by core logic]

[Normal: GateA20 signal supported by keyboard controller].

Typematic Rate Setting

This field determines if the typematic rate is to be used. When enabled, the BIOS will report (after a moment) that the key has been depressed repeatedly. When disabled, the BIOS will report only once if a key is held down continuously. This feature is used to accelerate cursor movements using the arrow keys.

[Enable, Disabled(**Default Value**)]

Typematic Rate (Chars/Sec)

When Typematic Rate Setting enabled, this field specifies how many characters will be displayed in one second when a key is held down continuously.

[6(**Default Value**)8,10,12,15,20,24,30]]

Typematic Delay (Msec)

When enabled, typematic delay allows you to select the time delay between when the key is first pressed and when the acceleration begins

[250msec(**Default Value**)500msec,750msec,1000msec]

Security Option

This field configures how the system security is handled. It works conjunction with SETTING SUPERVISOR / USER PASSWORD page to control the security level of the system.

[Setup(**Default Value**):System needs a password to enter BIOS setup program.]

[System:System needs a password to boot.]

OS Select for DRAM >64MB

When enabled, this field allows you to access the memory that is over 64MB under OS/2.

[OS2, Non-OS2(**Default Value**)]

Report No FDD For WIN 95

For a floppy diskless system that runs Windows 95, this field should be set to Yes.

[YES, NO(**Default Value**)]

Video BIOS Shadow

Setting to enabled, the video BIOS will be copied to the system memory and increase the video speed accordingly.

[Enabled(**Default Value**), Disabled]

**C8000-CBFFF/CC000-CFFFF/D0000-D3FFF/D4000-D7FFF/
D8000-DBFFF/DC000-DFFFF Shadow**

Setting to enabled, the extended ROM data located at the respective address range will be copied to system memory.

[Enalbed, Disabled(**Default Value**)]

Advanced Chipset Features

This setup page is used to specify advanced features available through the chipset. The default settings have been chosen carefully for most operating conditions. DO NOT change the value of any field in this setup page without full understanding.

CMOS Setup Utility-Copyright(c) 1984-2001 Award Software
Advanced Chipset Features

DIMM 0 (tRAS-tRP-tRCD)	[Normal(6-3-3)]	<div>Item Help</div> <div>Menu Level ▶</div>
DIMM 1 (tRAS-tRP-tRCD)	[Normal(6-3-3)]	
DIMM 2 (tRAS-tRP-tRCD)	[Normal(6-3-3)]	
SDRAM Cycle Length	[3]	
Bank Interleave	[By SPD]	
DRAM Clock	[Host CLK]	
DRAM Page-Mode	[Disabled]	
Memory Hole	[Disabled]	
PCI Master Pipeline Req	[Enabled]	
P2C/C2P Concurrency	[Enabled]	
Fast R-W Turn Around	[Enabled]	
CPU to PCI Write Buffer	[Enabled]	
PCI Dynamic Bursting	[Enabled]	
PCI Master 0 WS Write	[Enabled]	
Delay Transaction	[Enabled]	
System BIOS Cacheable	[Enabled]	
Video RAM Cacheable	[Disabled]	
I/O Recovery Time	[Enabled]	
AGP Aperture Size	[64M]	
AGP-4X Mode	[Enabled]	
AGP Driving Control	[Auto]	
x AGP Driving Value	DA	
AGP Fast Write	[Disabled]	
K7 CLK_CTL Select	Optimal	
On Chip USB Port 0	[Disabled]	
On Chip USB Port1	[Disabled]	
USB Keyboard Under Dos	[Disabled]	

↑ ↓ : Move Enter: Select +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help
F5: Previous Values F6: Fail-Safe Defaults F7: Optimized Defaults

DRAM Settings

The first chipset settings deal with CPU access to dynamic random access memory (DRAM). The default timings have been carefully chosen and should only be altered if data is being lost. Such a scenario might well occur if your system had mixed speed DRAM chips installed. Longer delays might result, however this preserves the integrity of the data held in the slower memory chips.

DIMM 0/1/2 (tRAS-tRP-tRCD)

[Normal (6-3-3) (**Default Value**), Enhance(6-3-2), Fast(6-2-3), Faster(6-2-2), Fastest(5-2-2)]

SDRAM Cycle Length

When synchronous DRAM is installed, the number of clock cycles of CAS latency depends on the DRAM timing. Do not reset this field from the default value specified by the system designer.

[2, 3(**Default Value**)]

Bank Interleave

Select numbers of Bank to Bank to realize fast and seamless data access mode among many different pages.

[By SPD(**Default Value**), 2Bank, 4Bank]

DRAM Clock

This field allows you to select the DRAM operating frequency to get better performance.

[Host CLK(**Default Value**): DRAM clock is the same speed as Front Side Bus]

[HCLK+33: DRAM clock is set 33MHz less than the Front Side Bus.]

Memory Hole

In order to improve performance, certain space in memory is reserved for ISA cards. This memory must be mapped into the memory space below 16MB.

[Disabled(**Default Value**), 15M-16M]

PCI Master Pipeline Req

[Enabled(**Default Value**), Disabled]

P2C/C2P Concurrency

[Enable(**Default Value**), Disabled]

Fast R-W Turn Around

[Enabled (**Default Value**), Disabled]

CPU to PCI Write Buffer

[Enabled(**Default Value**), Disabled]

PCI Dynamic Bursting

When enabled, every write transaction goes to the write buffer, and burstable transactions will then burst on the PCI bus, and non-burstable transactions won't burst on the PCI bus.

When disabled, if the write transaction is a burst transaction, the information goes into the write buffer and burst transfers are later performed on the PCI bus. If the transaction is not burst transaction, PCI write occurs immediately(after a write buffer flush)

[Enabled(**Default Value**), Disabled]

PCI Master O WS Write

[Enable(Default Value), Disalbed]

Delay Transaction

The chipset has embeded 32-bit posted writer buffer to support delayed transaction cycles. When enable, the system is compliant with PCI specification version 2.2.

[Enabled(Default Value), Disabled]

System BIOS Cacheable

When enable accesses to the system BIOS will be cached.

[Enabled(Default Value), Disabled]

Video RAM Cacheable

[Enabled, Disabled(Default Value)]

I/O Recovery Time

[Enabled(Default Value), Disabled]

AGP Aperture Size (MB)

This field configures the main memory size for AGP graphics data used.

[4MB, 8MB, 16MB, 32MB, 64MB(Default Value), 128MB, 256MB]

AGP-4X Mode

This item allows you to enabled/disabled the AGP-4X Mode.

[Enabled(Default Value), Disabled]

AGP Driving Control

[Auto(Default Value), Manual]

AGP Fast Write

[Enabled, Disabled(Default Value)]

OnChip USB Port 0/1

This should be enabled if your system have USB ports external/ internal on the system board and you wish to use it. Even when so equipped, if you add a higher performance controller, you will need to disable this feature.

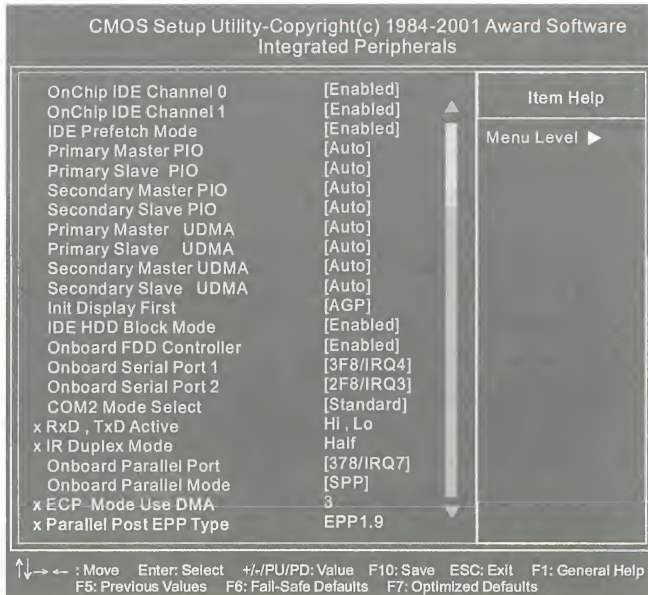
[Enabled, Disabled(Default Value)]

USB Keyboard Under Dos

Select Enabled if your system contains a Universal Serial Bus (USB) controller and you have a USB keyboard under Dos.

[Enabled, Disabled(Default Value)]

Integrated Peripherals



OnChip IDE Channel 0/1

This field enables or disables the onboard IDE controller.
[Enable(Default Value), Disabled]

IDE Prefetch Mode

[Enable(Default Value), Disabled]

Primary Master / Slave PIO

Secondary Master / Slave PIO

These fields configure the PIO (Programmable Input Output) transfer mode for each IDE devices. The maximum transfer rates of each PIO mode are listing as follow:

PIO Mode 0	3.3 MB/sec
PIO Mode 1	5.2 MB/sec
PIO Mode 2	8.3 MB/sec
PIO Mode 3	11 MB/sec
PIO Mode 4	16.6 MB/sec

Auto(Default Value)	Negotiated with device automatically
Mode 0	Use Mode 0 timing to access device
Mode 1	Use Mode 1 timing to access device
Mode 2	Use Mode 2 timing to access device
Mode 3	Use Mode 3 timing to access device
Mode 4	Use Mode 4 timing to access device

Primary Master / Slave UDMA**Secondary Master / Slave UDMA**

If you select Auto, the IDE controller uses Ultra DMA 33/66 Mode to access Ultra DMA-capable IDE devices. Depend on the result of negotiation with your HDD. The maximum transfer rate of Ultra DMA 66 Mode is 66.6 MB/sec.

[Auto(**Default Value**), Disabled]

Init Display First

This item allows you to decide which slot to activate first, either PCI slot or AGP slot.

[PCI Slot, AGP(**Default Value**)]

IDE HDD Block Mode

When enabled, the IDE controller will use the faster block mode to access devices.

[Enable(**Default Value**), Disabled]

Onboard FDC Controller

This field enables or disables the onboard floppy controller.

[Enable(**Default Value**), Disabled]

Onboard Serial Port 1 / 2

These fields configure the onboard serial ports. There are several port addresses and IRQ channels to select from.

3F8 / IRQ 4 (Default Value)	Port address 3F8h, IRQ 4
2F8 / IRQ 3 (Default Value)	Port address 2F8h, IRQ 3
3E8 / IRQ 4	Port address 3E8h, IRQ 4
2E8 / IRQ 3	Port address 2E8h, IRQ 3
Auto	BIOS assigns port address and IRQ channel automatically.
Disabled.	Disables serial port

COM2 Mode Select

A second serial port is using a serial port bracket connected from the motherboard to an expansion slot opening.

[Standard(**Default Value**), HPSIR, ASKIR]

RXD, TXD Active

When setting the field to either IrDA or ASKIR, you must select the active level of receiving and transmission signal.

[Hi,Lo(**Default Value**)/ Lo, Hi/ Lo,Lo/ Hi,Hi]

IR Duplex Mode

When setting the field to either HPSIR or ASKIR, you must select the mode of receiving and transmitting signals.

[Half(**Default Value**), Full]

Onboard Parallel Port

This field configures the onboard parallel port. There are several port addresses and IRQ channels to select from.

378 / IRQ 7 (Default Value)	Port address 378h, IRQ 7
278 / IRQ 5	Port address 278h, IRQ 5
3BC / IRQ 7	Port address 3BCh, IRQ 7
Disabled	Disables parallel port

Onboard Parallel Mode

This field configures the operating mode of an onboard parallel port. Ensure you know the specifications of your parallel port devices before selecting field.

[SPP(**Default Value**),EPP,ECP ECP+EPP]

ECP Mode Use DMA

When the Parallel Port Mode field is configured as ECP, ECP+EPP mode, it needs a DMA channel for data transfer. This field specifies the DMA channel for ECP parallel port use.

[1:Use DMA channel 1]

[3(**Default Value**):Use DMA channel1]

Parallel Port EPP Type

When the Parallel Port Mode field is configured as EPP, ECP+EPP mode, the EPP version needs to be specified.

[EPP1.7: Use EPP 1.7 protocol]

[EPP1.9(**Default Value**): Use EPP 1.9 protocol]

Power Management Setup

CMOS Setup Utility-Copyright(c) 1984-2001 Award Software Power Management Setup		
▶ Power Management	[PressEnter]	Item Help
PM Control by APM	[Yes]	Menu Level ▶
Video Off Option	[Suspend->Off]	
Video Off Method	[V/HSYNC+Blank]	
MODEM Use IRQ	[3]	
PWR-Off Mode by PWR-BTTN	[Instant-Off]	
▶ Wake Up Events	[PressEnter]	

↑ ↓ → ←: Move Enter: Select +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help
F5: Previous Values F6: Fail-Safe Defaults F7: Optimized Defaults

Each power-saving mode has a respective timer. The value of the timer can be assigned or reloaded and it will count down to zero. When the timer equals to zero, the system will be forced into the related suspend or power-saving mode. If any signal or event is detected during the timer counting period, the timer restarts automatically.

Power Management

This feature allows the user to select the default parameters for the power-saving mode.

Min saving	When idle for one hour, the system entersuspend mode.
Max Saving	When idle for fifteen minutes, the system enters suspend mode.
User Define (Default Vaule)	User can specify the time the system enters suspend mode.

APM HDD Power Down Timer

This field specifies the time the system enters HDD power down. It is available only when the Power Management field is set to User Defi

[1Min, 2Min, 3Min, 4Min, 5Min, 6Min, 7Min, 8Min, 9Min, 10Min, 11Min, 12Min, 13Min, 14Min, 15Min, Disabled(**Default Value**)]

APM Doze Timer Mode

This field specifies the timer value of Doze Mode. It is available only when the Power Management field set to User Define.

[1Min, 2Min, 4Min, 6Min, 8Min, 10Min, 20Min, 30Min, 40Min, 1Hour, Disabled(**Default Value**)]

APM Suspend Timer

This field specifies the time the system enters power-saving mode. It is available only when the Power Management field is set to User Define.

[1Min, 2Min, 4Min, 6Min, 8Min, 10Min, 20Min, 30Min, 40Min, 1Hour, Disabled(**Default Value**)]

PM Control by APM

When enabled, an Advanced Power Management (APM) protocol will be activated to handle the power-saving mode.

[NO, Yes(**Default Value**)]

Video Off Option

This field specifies the method that video subsystem used for power saving.

Always ON	Monitor will remain on during power saving modes.
Suspend Off (Default Value)	Monitor blanked when the systems enters the Suspend modes
All Modes Off	Monitor blanked when the system enters any power saving mode.

Video off Method

V/H SYNC+Blank (Default Vaule)	Turn off the vertical and horizontal synchronization ports and write blanks to the video buffer.
Blank Screen	Writes blanks to the video buffer only.
DPMS Support	Initial display power management signaling with DPMS.

MODEM Use IRQ

This determines the IRQ in which the MODEM can use.

[3(Default Value),4,5,7,9,10,11,NA]

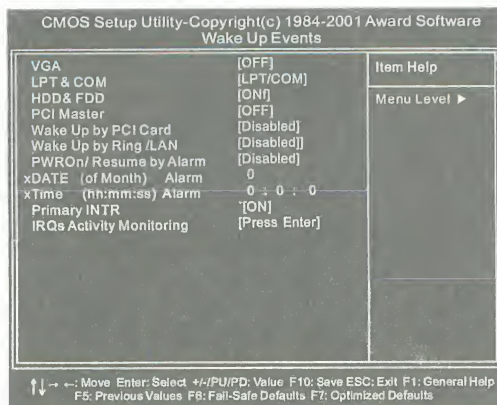
PWR-Off Mode by PWR-BTTN

This field specifies the function of power button.

Instant-Off (Default Vaule)	When power button pressed, the system turns off immediately
Delay 4 Sec.	After the power button has been pressed and held for four seconds, the system turns off

Wake Up Events

These are I/O events whose occurrence can prevent the system from entering a power-saving mode, or can awaken the system from such a mode. In effect, the system remains alert for anything that occurs to a device configured and recognized by the system, even when the system is in a power down mode.



VGA

When ON, you can set the VGA to awaken the system.

[OFF(**Default Value**), ON]

LPT & COM

When On, any activity from one of the listed system peripheral devices or IRQs wakes up the system.

[LPT/COM(**Default Value**), COM, LPT, None]

HDD & FDD

When On, any activity from either hard disk drive or floppy disk drive wakes up the system.

[ON(**Default Value**), OFF]

PCI Master

When On, the system can be resumed from power saving mode by any PCI / master activity signal.

[OFF (**Default Value**), ON]

Wake up by PCI card

When enabled, you can "wake-up" your system using a PCI rev.2.2 card, such as a WOL card, connected in your PCI slot.

[Enabled, Disabled(**Default Value**)]

Wake Up by Ring/LAN

When enabled, the PC can power-on through an external modem connected to your PC. For example, you may send an e-mail message to your PC from another location and this will power-on your PC. When using this feature, you must have a modem, and your PC must be turned off.

[Enabled, Disabled(**Default Value**)]

PWROn/Resume by Alarm

When enabled, you can set the date and time to automatically power-on your PC (similar to an alarm clock). The alarm from RTC (real-time clock) automatically turns on the system.

Enabled	Sets Date (0-31) and Timer (hr, min, sec) to power-on the PC. When date is set to 0, the Timer is set for every day.
Disabled (Default Vaule)	Disables RTC alarm function

Primary INTR

[ON(**Default Vaule**), OFF]

IRQs Activity Monitoring

When On, any event that occurs will awaken the system after it has powered-down. The following is a list of IRQ's, or "Interrupt Requests," which can be exempted much as the COM ports and LPT ports above can. When an I/O device wants to gain the attention of the operating system, it signals this by causing an IRQ to occur. When the operating system is ready to respond to the request, it interrupts itself and performs the service.

CMOS Setup Utility-Copyright(c) 1984-2001 Award Software
IRQs Activity Monitoring

IRQ3 (COM 2)	[Enabled]	Item Help
IRQ4 (COM 1)	[Enabled]	
IRQ5 (LPT 2)	[Enabled]	Menu Level ▶
IRQ6 (Floppy Disk)	[Enabled]	
IRQ7 (LPT1)	[Enabled]	
IRQ8 (RTC Alarm)	[Disabled]	
IRQ9 (IRQ2 Redir)	[Disabled]	
IRQ10 (Reserved)	[Disabled]	
IRQ11 (Reserved)	[Disabled]	
IRQ12 (PS/2 Mouse)	[Enabled]	
IRQ13 (Coprocessor)	[Enabled]	
IRQ14 (Hard Disk)	[Enabled]	
IRQ15 (Reserved)	[Disabled]	

↑ ↓ --: Move Enter: Select +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help
F5: Previous Values F6: Fail-Safe Defaults F7: Optimized Defaults

PnP/ PCI Configurations

CMOS Setup Utility-Copyright(c) 1984-2001 Award Software PnP/PCI Configurations		
PNP OS Installed	[No]	Item Help
Reset Configuration Data	[Disabled]	
Resources Controlled By	[Auto (ESCD)]	Menu Level ► Select Yes if you are using a Plug and Play capable operation system. Select No if you need the BIOS to configure non-boot devices.
x IRQ Resources	Press Enter	
x DMA Resources	Press Enter	
PCI/VGA Palette Snoop	[Disabled]	
PCI1/PCI5	[Auto]	
PCI2/PCI6	[Auto]	
PCI3/Onboard Sound	[Auto]	
PCI4/Onboard RAID	[Auto]	

↑↓ → ← : Move Enter: Select +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help
 F5: Previous Values F6: Fail-Safe Defaults F7: Optimized Defaults

PNP OS Installed

The field specifies whether a Plug and Play operating system is installed.

[Yes,No(**Default Value**)]

Reset Configuration Data

Normally, you leave this field Disabled. Select Enabled to reset Extended System Configuration Data (ESCD) when you exit Setup if you have installed a new add-on and the system reconfiguration has caused such a serious conflict that the operating system can not boot.

[Enabled, Disabled(**Default Value**)]

Resources Controlled By

The Award Plug and Play BIOS has the capacity to automatically configure all of the boot and Plug and Play compatible devices. However, this capability means absolutely nothing unless you are using a Plug and Play operating system such as Windows98/95/NT. If you set this field to "manual" choose specific resources by going into each of the sub menu that follows this field (a sub menu is preceded by a "Ø").

[Manual: Resources controlled by the user.]

[Auto(ESCD)(**Default Vaule**): Resources controlled by BIOS automatically]

IRQ Resources

When resources are controlled manually, assign each system interrupt a type, depending on the type of device using the interrupt.

IRQ3/4/5/7/9/10/11/12/14/15 assigned to

[PCI/ISA PnP (**Default Value**), Legacy ISA]

DMA Resources

DMA 0/1/3/5/6/7 assigned to

[PCI/ISA PnP (**Default Value**), Legacy ISA]

PCI / VGA Palette Snoop

This field controls the ability of a primary PCI graphics controller to share a common palette with an ISA/VESA video or MPEG card.

Enabled	PCI VGA co-works with ISA MPEG card
Disabled (Default Vaule)	All cases except above.

PCI1 IRQ

PCI1/5 IRQ

PCI2/6 IRQ

PCI3 Onboard Sound IRQ

PCI4 Onboard RAID IRQ

These fields set how IRQ use is determined for each PCI slot. The default setting for each field is Auto, which uses auto-routing to determine IRQ use.

[Auto(**Default Value**),3,4,5,7,9,10,11,12,14,15]

PC Health Status

This page is monitoring your status of computer. On the screen displays CPU/System temperature, FAN speed, and voltages.

CMOS Setup Utility-Copyright(c) 1984-2001 Award Software		
PC Health Status		
Current CPU Temp	40°C/104°F	Item Help
Current System Temp	29°C/84°F	Menu Level ►
Current CPU FAN Speed	4615RPM	
Current SYS FAN Speed	0RPM	
Vcore.	1.79V	
+3.3v	3.36V	
5v	4.48V	
12v	11.82V	

↑ ↓ → ← : Move Enter: Select +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help
F5: Previous Values F6: Fail-Safe Defaults F7: Optimized Defaults

IWILL Smart Setting

CMOS Setup Utility-Copyright(c) 1984-2001 Award Software		
IWILL Smart Setting		
THE CPU IS	AMD Athlon(TM)	Item Help
THE CPU ID IS	XXXX	Menu Level ►
CPU Micro Code Updated to	XXXX	
Spread Spectrum Modulated	[Disabled]	
==* IWILL Micro Stepping ==*		
CPU Clock	[133]	
CPU Clock Ratio	[Auto]	
CPU Vcore Setting	[Auto]	
BIOS-ROM Flash Protect	[Non-Flash]	

↑ ↓ → ← : Move Enter: Select +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help
F5: Previous Values F6: Fail-Safe Defaults F7: Optimized Defaults

IWILL MicroStepping

MicroStepping

Microstepping is Iwill's another step forward to provides users a fuss free CPU frequency set up procedure. It contains two main functions, Auto Detecting CPUs speed and Micro Adjustable CPU FSB speed.

Auto Detecting CPU speed:

IWILL MicroStepping will auto detect the CPU's factory multiplier setting and CPU FSB to the factory default. This function provides a "fuss free" CPU set up process for the general users.

Micro Adjustable CPU FSB speed:

IWILL provides a user friendly overclocking function that allows users to experience the fun of overclocking. This function allows user to adjust CPU FSB by 1MHz interval. This is particularly useful when user wants to extract the most out of the purchased CPU. For example: you select from 133, 134, 135, 136, 137, 138MHz and up to the maximum speed that the system can sustained. In the time should overclocking failed, MicroStepping will auto detects the CPU's factory multiplier setting and set the CPU FSB to default 66MHz, to protect the CPU installed.

Spread Spectrum Modulated

This item configures radiation emitted from the system. When enabled, system will release less radiation

[Enabled, Disabled(**Default Value**)]

CPU Vcore Setting

This item display the current status of CPU voltages.

[Auto (**Default Value**), 1.125V, 1.150V, 1.175V, 1.200V, 1.225V, 1.250V, 1.275V, 1.300V, 1.325V, 1.350V, 1.375V, 1.400V, 1.425V, 1.450V, 1.525V, 1.550V, 1.575V, 1.600V, 1.625V, 1.650V, 1.675V, 1.700V, 1.725V, 1.750V, 1.775V, 1.800V, 1.825V, 1.850V]

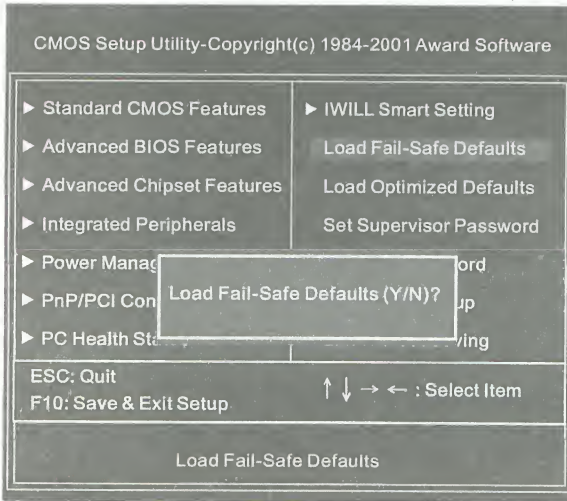
BIOS-ROM Flash Protect

When select "Non flash", the BIOS ROM chip will be protecte to prevent injuring by Virus "please don't select Flashable" until you have to upgrade the latest BIOS.

[Non-Flash(**Default Value**), Flashable]

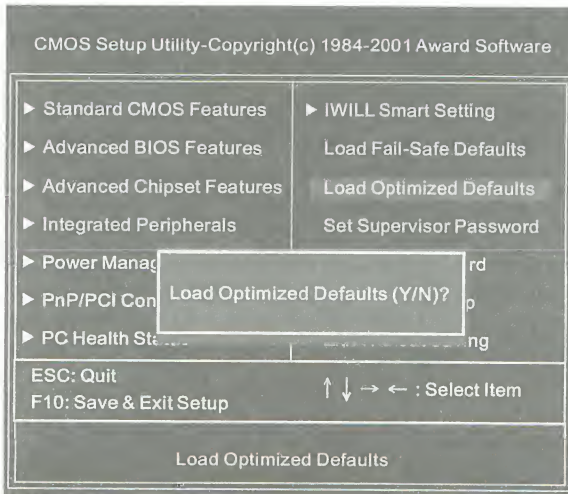
Load Fail Safe Defaults

When you press <Enter> on this item you get a confirmation dialog box with a message similar to: Pressing 'Y' loads the BIOS default values for the most stable, minimal-performance system operations.

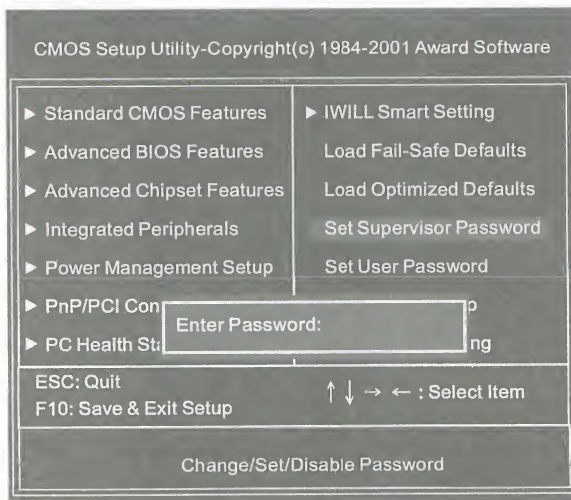


Load Optimized Defaults

When you press <Enter> on this item you get a confirmation dialog box with a message similar to:



Set Supervisor/ User Password Setting



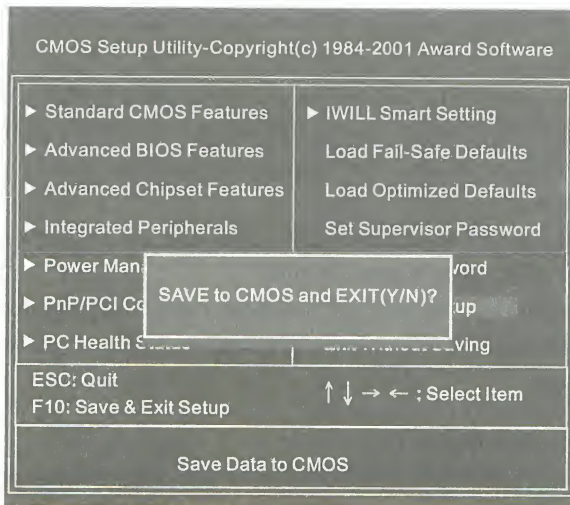
These setup pages are used for password setting. When a password has been enabled and the Security Option field is set as Setup, you will be required to enter the password every time you try to enter BIOS Setup program. This prevents an unauthorized person from changing any part of your system configuration. Additionally, if the Security Option field is set as Boot, the BIOS will request a password every time your system boot. This would prevent unauthorized use of your computer.

If you wish to use this function, bring the cursor to this field, then press <Enter>. The computer will display the message, "Enter Password". Type your password and press <Enter>. After the message on firm Password" is displayed, re-type your password. The Supervisor Password function will be in effect after you save and exit setup.

To disable a password, bring the cursor to this field, then press <Enter>. The computer will display the message, "Enter Password". Press <Enter>. A message will confirm that the password is disabled. Once the password is disabled, the system will boot and you can enter setup program freely.

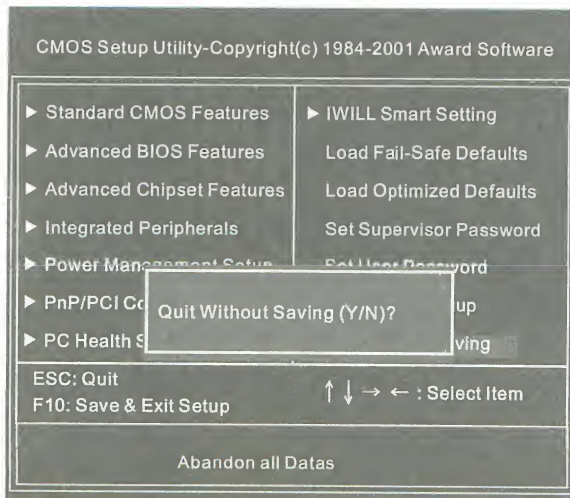
Save & Exit Setup

Saves current CMOS value and exit BIOS setup program.



Exit Without Saving

Abandons all CMOS value changes and exits BIOS setup program.



On board Audio

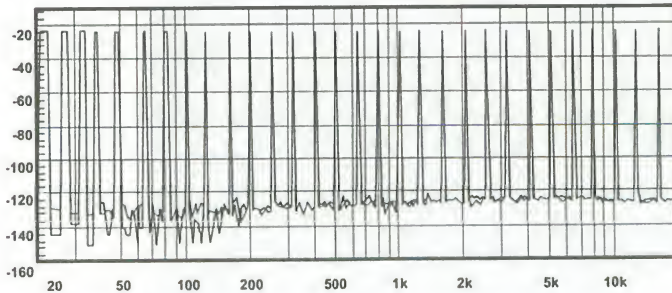
Audio Features

Special Feature

1. Full-duplex playback and recording. Built-in 16-bit CODEC.
2. HRTF 3D positional audio, supporting both DirectSound 3D&A3D interfaces. Also supports earphones, 2/4/6 channel speakers mode.
3. Support Windows 98/Windows 2000 and Windows NT 4.0.
4. Built-in 32 OHM Earphone buffer.
5. MPU-401 Game/Midi port and legacy audio SB Pro support.
6. Downloadable Wave Table Synthesizer, supporting Direct Music.

Digital Audio (SPDIF IN/OUT)

1. Up to 24-bit stereo 44KHz sampling rate; voice playback/recording
2. Full-duplex playback and recording. 120dB audio quality measured.
3. Auto detectable SPDIF/IN signal level from 0.5V to 5V.



120 dB audio quality in playback, recording, and by pass modes.

Stereo Mixer

1. Stereo analog mixing from CD-Audio and Line-in
2. Stereo digital mixing from Voice, FM/Wave-table, and Digital CD-Audio
3. Mono mixing from MIC. Software adjustable volume.

Game and Midi Interface

Fully compatible with MPU-401 Midi UART and Sound Blaster
Midi mode/Standard IBM PC joystick/game port

Driver Installation

DOS Installation

Before beginning the installation, please make sure that your hard disk has sufficient space(min. 4MB). Insert the Power Installer CD into the CD-ROM Drive.

1. Change directory to PCI audio DOS drivers folder
(ex. D:\DOSDRV) at DOS prompt, and type: *INSTALL*[Enter]
2. Type the DOS utilities path you want to install the file in.
3. Program will expand the file to the path you've specified.
4. Install program will add initial drivers into AUTOEXEC.BAT file.

Win 95/98/ME/2000 Installation

1. Click "Start" at Windows bottom-left corner.
2. Select "Run"
3. Key in the drive path where the installation CD and installation program are in; for example, "D:\SETUP.EXE"
4. Click "OK" to start the applications installation procedure, and follow the on-screen instructions to complete the installation.
5. When all the application software has been installed, please shut down Windows system, and reboot your system for new driver installation. System will install the device drivers automatically.

Win 95/98/ME/2000 Un-Installation

1. Click "Start"
2. Select "Program."
3. Find "Uninstall device drivers and applications" program in PCI audio applications.
4. Run it.
5. Follow the on-screen instructions to uninstall the device drivers or applications.

Windows NT4.0 Installation

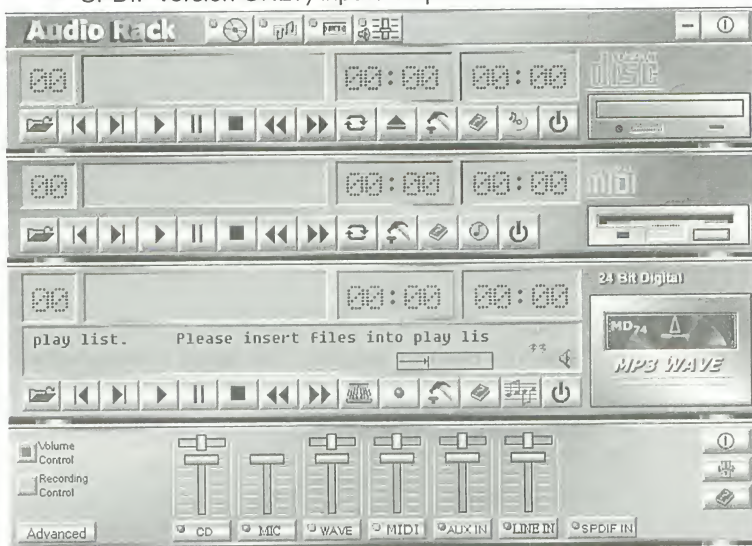
We recommend that you have Microsoft Windows NT intalled, and remove any exsisting sound drivers from your current system, before you install this PCI sound device driver.

1. Click "Start" , move the highlight bar to "Setting", and select the "Control Panel".
2. Double-click "Multimedia."
3. Select "Devices", and press "Add"
4. Select "Unlisted or Updated Driver" in List of Drivers."
5. Specify the drive path where NT drivers are in (such as D:\NT40\DRV).
6. Select "C-Media CM8738," and press "OK".
7. Select proper I/O value.
8. Press "OK."
9. Restart the system when being asked.
10. Now, you have already installed the PCI Audio Adapter under Microsoft Windows NT 4.0 successfully. If you want to install the Windows applications, continue the following steps.
11. Click "Start"
12. Select "Run"
13. Key in drive path where the Windows NT application installation program are in;
for example, "D:\NT40\APP\SETUP.EXE"
14. Click "OK" to start the installation procedure, and follow the on-screen instructions to complete the installation. When all of application software has been installed, shut down the Windows NT system, then reboot your system.

The Audio Rack

Introduction

By means of a user-friendly interface (as easy as operating your home stereo system), this PCI audio rack provides you with the control over your PC's audio functions, including the advantage of six speakers mode enable/ disable, and perfect digital sound (SPDIF version ONLY) input / output. control.

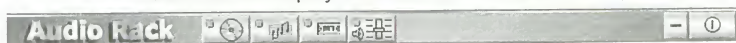


About Audio Rack

The Audio Rack is consisted of several major components.

Control Center

Controls the display of the PCI Audio Rack's components.



MIDI Player

MIDI Player can play MIDI files, *.mid/*.rmi, and allow you to create your own playlist.

MP3/Wave Player

Records and plays digital audio (mp3/wave) files. Allows you to create wave file playlists, and playback the wave files.

CD Player

Plays standard audio CDs. Allows you to create your favorite song playlists.

Mixer

Controls the volume level of your audio inputs and outputs

Mixer

Volume Control



For each output signal, the control slider regulates the loudness whereas a horizontal slider the balance between the two speakers. The mute button can temporarily stop the output without changing slider positions. A button with a lit LED means the output is available, and vice versa. Several output signals can usually be enabled at once.

Volume: This is the master control over all outputs. The power of an output signal is determined by both of the volume slider and the slider for the individual output. To modify all the outputs, adjust the volume slider. To change individual output(s), adjust its(their) slider(s).

CD: Regulates the CD drive audio input level.

MIC: Regulates the input level of microphone.

WAVE: Regulates wave (voice) playback levels.

MIDI: Regulates the MIDI music play level.

AUX IN: Regulates the Auxiliary input play level.

MONO IN: Regulates the Mono input level.

LINE IN: Regulates the Line-In levels.

Advanced: Regulates the advanced settings.

Recording Control



For each input signal, a control slider regulates the loudness whereas a horizontal slider the balance between the two channels. The select button can temporarily select input signal without changing slider positions. A button with a lit LED means it is available, and vice versa.

CD: Regulates the CD drive audio input level.

MIC: Regulates the input level of microphone.

WAVE: Regulates wave (voice) playback level.

FM: Regulates the FM music play level.

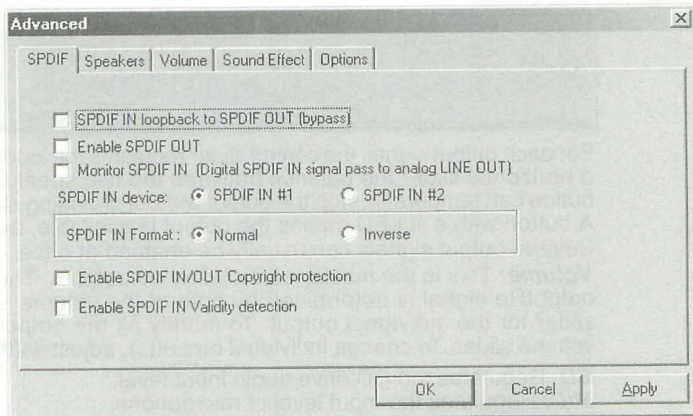
AUX IN: Regulates the Auxiliary input play level.

LINE IN: Regulates the Line-In level.

SPDIF IN: Enables the recording from SPDIF in. SPDIF-in is mutually exclusive with other input signals.

Advanced: Regulates the advanced settings.

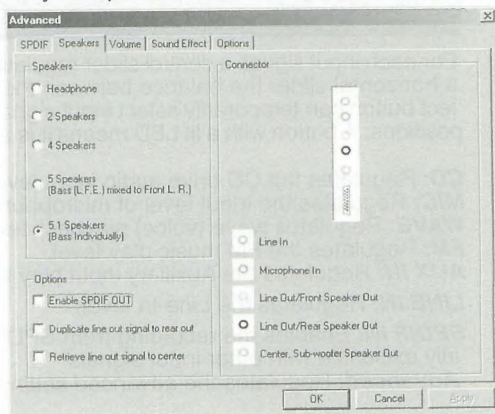
Advanced - SPDIF



SPDIF dialog provides a full control over SPDIF IN/OUT functions. You can use these settings to connect your computer to other pieces of audio device, such as: Mini Disc players, amplifiers...etc.

Advanced - Speakers

Speakers dialog provides an interface allowing you to set your speakers configurations. First, You should make sure what model type your speakers are, and what the correct configurations are. And this dialog also shows the current status and functions of the phone jacks of your audio device. You can always refer to this to make sure whether or not the connections of your speakers and microphone are correct.





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